

**Title:** Dot product in school mathematics

**Author:** Veronika Krejčí

**Department:** Department of Mathematics Education

**Supervisor:** Mgr. Halas Zdeněk, DiS., Ph.D., Department of Mathematics Education

**Abstract:** The theme of the bachelor thesis is the dot product in school mathematics. The bachelor thesis is addressed to the teachers, who teach at the secondary school. The first part consists of an analysis of the textbooks, the result of the analysis is the reason to write this bachelor thesis and to build a new introduction to the theme of the dot product. In the second part we build the new introduction. The third and the fourth part consist of application of the dot product.

**Keywords:** dot product, hyperplane, distance, angle